

INTRODUCTION

The MFJ-1707 RF Sense T/R Antenna Switch senses transmitted RF and switches your antenna from the receiving antenna to the transmitting antenna using a relay. It shorts your Transceiver input to ground to protect your transceiver. It provides an auxiliary contact closure to ground during receive (opened in transmit) for an "On-the-Air" sign or other use. It also has a control line input, which lets your key/keyer or PTT line switch the antenna.

An adjustable time delay circuit gives you delayed switching. This prevents your antenna from switching between dots and dashes or between syllable and words.

TECHNICAL DESCRIPTION

The MFJ-1707 RF Sense T/R Antenna switch uses a relay, which switches from transmit to receive mode. When no power is applied to the unit, it is in the transmit mode. Once power is applied the relay switches on and the unit is in receive mode. When the unit senses RF or the control line is grounded from a keyer or PTT switch, it switches the relay off and the unit is in transmit mode.

The delay adjustment allows you to change how fast the relay switches back to the receive mode. It is adjustable from 0 to 2 seconds.

The auxiliary jack provides a contact closure to ground during receive (opened in transmit) for an "On-the-Air" sign or other use.

The MFJ-1707 RF Sense T/R Antenna switch requires 12 VDC or 110 VAC with MFJ-1315 power supply.

CONTROLS

Power.....	2.1mm Coaxial power input jack with center pin positive and shield negative
Control.....	RCA input jack
Aux.....	RCA input jack
Delay.....	Controls time delay for switching
Transmitting Antenna.....	SO-239 Coaxial connector
Transceiver.....	SO-239 Coaxial connector
Receiving Antenna.....	SO-239 Coaxial connector

TECHNICAL ASSISTANCE

If you have any problem with this unit first check the appropriate section of this manual. If the manual does not reference your problem or your problem is not solved by reading the manual you may call *MFJ Technical Service* at **662-323-0549 or the *MFJ Factory* at **662-323-5869**. You will be best helped if you have your unit, manual and all information on your station handy so you can answer any questions the technicians may ask.**

You can also send questions by mail to MFJ Enterprises, Inc., 300 Industrial Park Road, Starkville, MS 39759; by Facsimile to 662-323-6551; or by email to techinfo@mfjenterprises.com. Send a complete description of your problem, an explanation of exactly how you are using your unit, and a complete description of your station.

SCHEMATIC

